

Claims:

1. An implantable medical lead comprising an elongated lead body having an elongated lumen therein:

an elongated coiled conductor mounted within the lumen of the lead body;

a stranded conductor, extending along the length of the lead body and coupled electrically to the coiled conductor at a first location and a second location distal to and spaced from the first location.

2. A lead according to claim 1 wherein said lead is provided with an electrical connector located at a proximal end of the lead body and in which the coiled conductor is connected to the connector.

3. A lead according to claim 2 in which the stranded conductor and the coiled conductor are electrically and mechanically coupled to the connector.

4. A lead according to claim 1 provided with an electrode located on said lead body and in which the coiled conductor is coupled to the electrode.

5. A lead according to claim 4 wherein the coiled conductor and the stranded conductor are both electrically and mechanically coupled to the electrode.

6. A lead according to claim 1 provided with an electrical component located on said lead body, wherein said coiled conductor is coupled to said electrical component.

7. A lead according to claim 6 wherein said coiled conductor and said stranded conductor are electrically and mechanically coupled to said electrical component.

8. A lead according to claim 6 wherein said electrical component is an electrode.

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9. A lead according to claim 1 wherein said stranded conductor is insulated from said coiled conductor between said first and second locations.

5 Sub 64 10. A lead according to claim 1 or claim 2 wherein said stranded conductor and said coiled conductor are both located within said lumen of said lead body.

11 11. A lead according to claim 10 wherein said coiled conductor defines an internal lumen and wherein said stranded conductor is located within said lumen of said coiled conductor for a distance, along the length of the lead body.

10 12. A lead according to claim 11 wherein said coiled conductor defines an internal lumen and said stranded conductor is located outside of said internal lumen, for distance along said lead body.

13. A lead according to claim 1 wherein said coiled conductor defines an internal lumen and wherein said stranded conductor passes between coils of said coiled conductor, to pass from within the internal lumen of the coiled conductor, to pass from within the internal lumen of the coiled conductor to outside of the coiled conductor.

14 14. A lead according to claim 1 wherein said stranded conductor comprises a seven stranded conductor.

15 15. A lead according to claim 14 wherein said stranded conductor is made of MP35N alloy.

25 16. A claim according to either claim 13 or 14 wherein said stranded conductor has an outer diameter of about .003 inches.

17 17. A lead according to claim 1 in which the stranded conductor and the coiled conductor are electrically and mechanically coupled to one another.

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18. A lead according to claim 17¹⁶ in which the stranded conductor and the coiled conductor are electrically and mechanically coupled to one another at said first and second locations.

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19. A lead according to claim 18¹⁷ in which the stranded conductor and the coiled conductor are electrically insulated from one another along a portion of the coiled conductor intermediate said first and second locations.

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20. A lead according to claim 1 in which the stranded conductor and the coiled conductor are electrically insulated from one another along a portion of the coiled conductor intermediate said first and second locations.

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21. A lead according to claim 20¹⁹ wherein the stranded conductor and the coiled conductor are electrically insulated from one another along a portion of the coiled conductor intermediate said first and second locations by means of an insulative tubular sheath.

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22. A lead according to claim 21²⁰ wherein the coiled-conductor defines an internal lumen and the tubular sheath is located within the internal lumen of the coiled conductor and the stranded conductor is located within the tubular sheath.

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23. A lead according to claim 21²⁰ wherein the tubular sheath is located exterior to the coiled conductor and the stranded conductor is located exterior to the tubular sheath.

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24. A lead according to claim 1 or claim 2 wherein said stranded conductor is located outside said lumen of said lead body.

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25. A lead according to claim 24²³ wherein said lead body is provided with an additional longitudinal lumen and wherein said stranded conductor is located within said additional lumen.

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26, A lead according to claim 1 wherein said coiled conductor is rotatably mounted in said lumen.

27. A lead according to claim 26 wherein said lead comprises means for coupling said stranded conductor to said coiled conductor while said coiled conductor rotates.

28. A lead according to claim 26 or claim 27 wherein said lead comprises a rotatably mounted electrical connector located on a proximal portion of said lead body and coupled to said coiled conductor.

29. A lead according to claim 28 wherein said lead comprises a rotatably mounted electrode means located on a distal portion of said electrode body and coupled to said coiled conductor.

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